

At Sec, Jan 1. 1883 84?
Acc. 976

Memo

Med Hat (1) I notice that in your 4 sections, 3, mine & two others agree in ^{the} important fact of Med Hat being newer - (2) It is in favour of mine that the quartz sandstone capping the Med. Hat section and associated with pebble-beds occurs on the prairie some distance E of Med Hat. (3) It would seem as if the so-called Fox Hall of your 3d & 4th sections might be an equivalent of Med Hat. What are its characters? (4) In your general section on the large map it would seem possible that the Pene might carry head down as far ^{as the} the ^{White} cliffs ^{Med. Hat} is ^{the} Med. Hat

The purple being Pene & the white Laramie. It is against

this that the Calgary beds are
 so deep in Mineral char, but they
 may be a little higher & the
 Sandstone may thicken towards
 the hills. (S) After all a very
 little faulting or uneven plane
~~and~~ may make all the
 difference, so it is not well
 to be dogmatic. I am willing
 to go by the fossils. The Saurian
~~and~~ I found is thought to be
 the Saurian, but it may
 just as well be older, and I
 was very much disappointed that
 I could find no plants,
 while the few shells I got
 were not characteristic of
 anything, so far as I could
 make them out.

The copy of my paper
 I have with me is somebody
 written that I fear you
 cannot read it and I may
 not have time to copy it.
 It is merely a notice of facts
 along the railway - thus

- 1 Mention of width of Survey in the
Report.
- 2 Notice of works seen at P. A.,
Landing & Vicinity.
- 3 Notice of works in cuttings from
P. A. to Port Porage.
- 4 Remarks on West A Plain—
Mudflats & Sand dunes
at margin.
- 5 Notice of Prairie levels & of
Sand ridges connecting
Inlet with the Ridges to
W.
- 6 Notice of the Coteau & its Lakes,
where the Railway crosses
& an drift appearance is given
along the line. quoting from Coteau
Remarks on "Success".
- 7 Description of some sections seen
at Mill Hill, Calgary on
the Sup. Cret & Laramie

8 Some theoretical notions
as to history of the
district.

I have put an abstract of
it into Dallas' hands, &
must complete it when
I get back to England.
It is merely a record of my
experiences on the particular
line of the Railway, with
references to the work of
myself and others on
neighboring lines, and
I shall try to avoid amounting
myself on doubtful points.
I shall be very glad if you
will send me anything
additional or supplementary.

Write this on the deck
of the steamer on the first
quiet day we have had - New
Year's day - the first two days
having been cold & blustering.

I shall mail it at Cairo,
with our united good
wishes for a happy new
Year.

As to the Brit. Affr, you
cannot feel more strongly than
I the difficulty & responsibility
of it. To me, just returning from
a long journey and desiring
quiet above all things, it
will be a very great trial.
But we must all do what
we can for the credit &
benefit of Canada in
the matter; and I hope
you will do all in your power
in this direction, both
individually and if any in-
fluence you may exercise
in Ottawa. Please also to
bear in mind that many
very good and estimable ^{men}

When we have been in 2
debted in time part will
be among the best.

We had a splendid ascent
of benwons, and sketched its
crater & carried of a carriage
load of specimens of the
more recent & older lavas,
which have been duly shipped
to Liverpool along with a Col 2
letter given to me by Dr Whiston
Lavis, a great benwian Col 2
letter, and Prof Jusscard's
to send me another Col 2
letter, so I shall be pretty
well up in benwian rocks.

We saw a ~~strange~~ ^{strange} my at a
distance & partly covered with
clouds. His very common mineral
are found in the Sarabentian minerals
of benwons, & yet probably not
older than clatons.

We hope to be in Alexandria
to-morrow, & to go on direct to
Cairo.

Ever yours
MD